

NB 1857

Notified Body EU-Type Examination Certificate

No 07041/01.12.2017

This is to certify that OTC Ltd. did undertake the relevant EU-type examination procedures for the technical design of the equipment identified below which was found to be in compliance with the essential requirements of the Radio Equipment Directive 2014/53/EU.

Certificate Owner: Allterco Robotics Ltd., 109 Bulgaria Blvd., 8th Floor, 1404 Sofia, Bulgaria

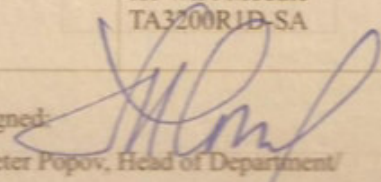
Radio Equipment: Shelly 4Pro

Equipment Manufacturer: Allterco Robotics Ltd., 109 Bulgaria Blvd., 8th Floor, 1404 Sofia, Bulgaria

The radio equipment is described in detail in the Annex to this Certificate and in the documents referred to. EU-Type Examination of the equipment was carried out according to Module B (Annex III of Directive 2014/53/EU). The examination and its results are recorded in Report No 10 /23.10.2017

The compliance with the essential requirements was assessed on the basis of the following documents:

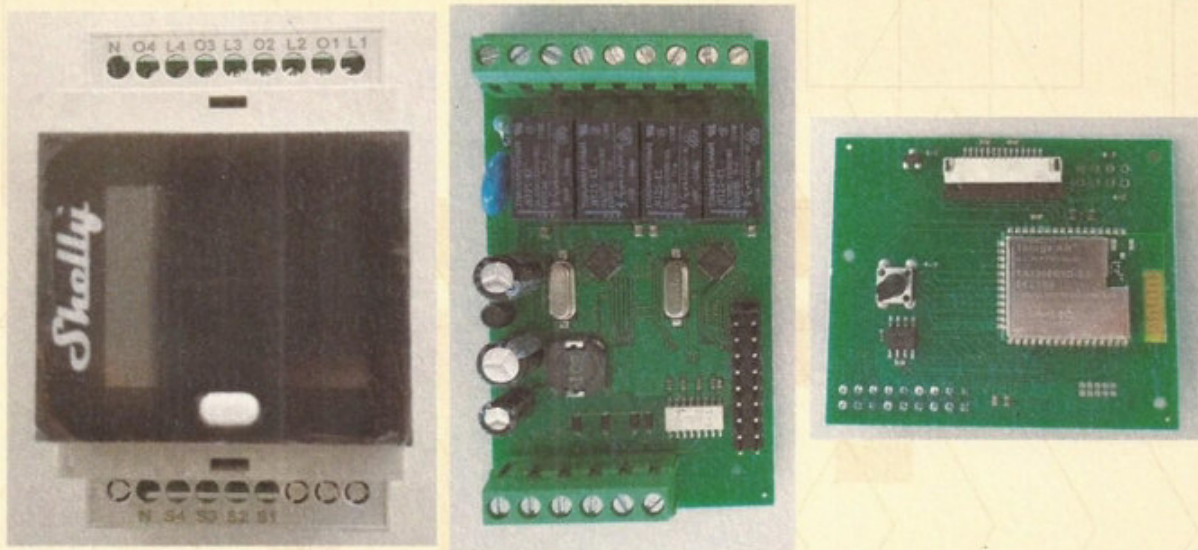
Directive 2014/53/EC	Requirements for:	Harmonized Standard	Applicant's document
Article 3.1. a)	Safety	EN 60950-1:2006+A11:2009+ A1:2010+A12:2011+A2:2013 EN 61010-1:2010 EN 50491-1:2014 EN 50491-3:2009	Test Reports No.16.0034/ 02.047, No.16.0034/02.048 and No.16.0034/02.049 of 9.11.2016, Elprom ILEP Ltd, Sofia, Bulgaria
	EMF for WiFi Module TA3200R1D-SA of Beijing Jia An Electronics Technology Co., Ltd.	EN 62311:2008	EU Type Examination Certificate RE-17103001 of 30.10.2017, Siemic Inc., NB 2200
Article 3.1.b)	Electromagnetic compatibility (EMC)	EN 301 489-1 V1.9.2 EN 55022:2010 EN 61000-3-2/3 EN 61000-4-3	Test Reports No. 1009/1009A/ 20.10.2016 of EMC Test Laboratory at Bulgarian Institute on Metrology EU Type Examination Certificate RE-17103001 of 30.10.2017, Siemic Inc., NB 2200
	For WiFi Module TA3200R1D-SA	EN 301 489-1 V2.1.1 EN 301 489-17 V3.1.1	
Article 3.2	Radio frequency spectrum usage for WiFi Module TA3200R1D-SA	EN 300 328 V2.1.1	EU Type Examination Certificate RE-17103001 of 30.10.2017, Siemic Inc., NB 2200

Signed: 
/Peter Popov, Head of Department/

ANNEX to
Notified Body EU-Type Examination Certificate
No 07041/01.12.2017

Description of the Equipment:

Shelly 4Pro is remotely controlled device for switching on/turning off power lines, mains sockets, lights, appliances and any other mains powered devices up to 4 x 2300 W (230 VAC).



The main features of Shelly 4Pro are:

- Power Supply: 110-230V $\pm 10\%$, 50/60Hz AC, 25-60 V DC. Shelly 4Pro is compatible with all major international power supply standards.
- Four channel with up to 9,2 kW total controlled power
- Power Metering: an integrated precise power meter for measuring the overall consumption of all of the controlled electric devices.
- Embedded WEB Server.
- Wireless/WiFi Protocol: Shelly 4Pro connects with the home Wi-Fi network, then with Shelly Cloud. From the Cloud one can manage and operate the device from anywhere in the world.
- Scheduling: One can set the on/off time for each channel, or just follow the sunrise and sunset for the location.
- Shelly 4Pro has 3 connection modes:
 - ✓ Access Point Mode: One can set up and control any device by simply connecting his smart phone to Shelly 4Pro and open the Shelly 4Pro control page on the WEB server, embedded in the relay.
 - ✓ Local Mode: Connecting Shelly 4Pro to the local Wi-Fi network one can control any electrical device at home.
 - ✓ Cloud Mode: Shelly 4Pro can be accessed from anywhere in the world after downloading and installing the Shelly Cloud mobile application (for Android or iOS).

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Main technical data:

WiFi Parameters	WiFi Module	TA3200R1D-SA
	WiFi Protocols	802.11 b/g/n
	Frequency range	2412 - 2472 MHz
	TX Power	+ 17 dBm at 1DSSS
		+ 13.5 dBm at 54OFDM
	RX Sensitivity	- 94.7 dBm at 1DSSS
- 73 dBm at 54OFDM		
Type of Antenna	PCB trace	
Operating Voltage	110-230V ±10% 50/60Hz AC	
Power Relay Data (Fujitsu JV12S-KS)	Number of Relays	4
	Number of Contacts per Relay	1
	Contact Form	A (SPST-NO)
	Contact Rating	10A/250VAC / 24 VDC (resistive load)
	Max. Switching Voltage	250VAC / 150VDC
	Max. Switching Current	10A
	Max. Switching Power	2500VA / 240W
Protocols	HTTP, UDP	
Dimensions	90 x 52 x 57 mm	

List of relevant documents:

	Document
Technical description	Shelly_4Pro_UserGuide_BG.docx
User instructions	Shelly4Pro_User_Guide_BOOK_combined_BG_v2.pdf Shelly4Pro_User_Guide_BOOK_combined_EN_v6.pdf
Block diagram	Shelly4Pro_BlockDiagram.vsd
Circuit diagrams	Shelly_4Pro_schematic.pdf; Shelly4ProWiFi_v022.pdf; Shelly4ProPWR_v022.pdf
Bills of material	Shelly4ProWiFi_v022_BOM.txt; Shelly4ProPWRv023_BOM.txt
PCB layouts	Shelly4PorPWR_v0.2.2_components_BOT.pdf; Shelly4PorPWR_v0.2.2_components_TOP.pdf; Shelly4PorWiFi_v0.2.1_components_TOP.pdf
WiFi module datasheet	TA3200R1D-datasheet.pdf
Power relay datasheet	JV12S-KT.pdf
Safety test report	Test Report No. 47.pdf; Test Report No. 48.pdf; Test Report No. 49.pdf
EMC test report	20170201130421.pdf ; 20170201135922.pdf
SIEMIC's EU Type Examination Certificate	CE RE Directive Examination Certificate SC17103001-BJA-003 (17021074C).pdf
Manufacturer's declaration of conformity	Manufacturer's declaration.pdf

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Notes:

- This EC-Type Examination certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 2014/53/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- The manufacturer shall keep a copy of the EU-type examination certificate, its annexes and additions together with the technical documentation at the disposal of the national authorities for 10 years after the equipment has been placed on the market.
- The manufacturer shall take all measures so that the manufacturing process and its monitoring ensure conformity of the manufactured equipment with the examined type described in this EU-type examination certificate by applying Module C and all requirements of the above Directive that apply to them.
- The manufacturer shall affix the CE marking to each individual equipment that is in conformity with the type described in this EU-type examination certificate and satisfies the requirements of this Directive.
- The manufacturer shall draw up a written EU declaration of conformity for each apparatus model and keep it at the disposal of the national authorities for 10 years after the apparatus has been placed on the market.
- This certificate is valid from 01.12.2017 until no later than 30.11.2022.
- This certificate will not be valid if the manufacturer makes any changes or modifications to the examined equipment, which have not been notified to, and agreed with OTC Ltd.
- Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be reexamined prior to it/them been placed on the market.